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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,381	11/28/2003	Moon-Hee Hong	17289	9654
75	590 10/17/2005		EXAM	INER
Leopold Presser			JENKINS, DANIEL J	
Scully, Scott, Murphy & Presser				
400 Garden City Plaza			ART UNIT	PAPER NUMBER
Garden City, NY 11530			1742	

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/724,381	HONG ET AL.				
		Examiner	Art Unit				
		Daniel J. Jenkins	1742				
	The MAILING DATE of this communication app						
Period fo	or Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES IN THE MAILING DATES IN THE MAILING DATES IN THE MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1) ズ	Responsive to communication(s) filed on 01 Au	aust 2005.					
·	This action is FINAL . 2b)⊠ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4) Claim(s) 1-6 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-6</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)□	The specification is objected to by the Examiner						
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 8/1/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)				

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The Examiner has carefully considered Applicant's Response of 8/1/05.
 At this time, the Examiner makes a new rejection which is accordingly not made final.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenney et al. in view of Dorfman et al. '392 (Dorfman et al.).

 Kenney et al. discloses the invention substantially as claimed. Kenney et al. discloses a method of forming a W-Cu composite comprising:

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pressing a W-Cu starting oxide material;

forming a W-Cu composite by co-reduction of a starting oxide material;

sintering the formed W-Cu composite; and

infiltrating the sintered composite with additional copper to form a W-Cu composite.

Kenney et al. states that the powder is mixed, but does not disclose milling the powder.

Dorfman et al. teaches that milling can be performed on mixed copper oxide and tungsten oxide powders in the same field of endearvor to control the particle size of the powders. It would have been obvious to one having ordinary skill in the art at the time of the invention to use milling as the mixing step of Kenney et al. in order to produce a powder mixture of controlled particle size.

Kenney et al. discloses compositional and processing temperatures that overlap Applicant's claimed ranges.

It would have been obvious to one having ordinary skill in the art to select any portion of the range, including the claimed range, form the broader range disclosed in the prior art, because the prior art finds that the entire disclosed range has a suitability utility. Overlapping ranges have been held to be a prima facie case of obviousness, see MPEP 2144.05.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is

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571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins Primary Examiner Art Unit 1742